



Hy Laboratories Ltd.

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Cat No. PD011 - BRUCELLA AGAR + DEF. SHEEP BLOOD

Product Type: PETRI DISHES 90mm

Intended Use:

Brucella Agar with Defibrinated Sheep Blood (often called Brucella Blood Agar) is an enriched, non-selective medium widely used for the isolation, cultivation, and partial identification of fastidious and obligate anaerobic bacteria, including *Brucella spp.*, *Campylobacter spp.*, and a range of other clinically significant organisms. Brucella Agar supplemented with defibrinated sheep blood is widely used for the isolation, cultivation, and partial identification of anaerobic bacteria, including both *Bacteroides* and *Clostridium* species.

Principles and uses:

Brucella Agar with Defibrinated Sheep Blood is specifically recommended for use as a primary plating medium for clinical samples suspected to contain anaerobes. The medium supports the growth of fastidious anaerobic bacteria, including *Bacteroides* and *Clostridium* species, and allows for the observation of colony morphology, hemolysis, and pigment production, which are useful for partial identification.

Nutrient-rich base supports the growth of highly fastidious organisms, including *Brucella*, *Campylobacter*, *Streptococcus*, *Neisseria*, *Listeria*, and *Haemophilus* species.

Sheep blood (5%) provides additional growth factors (e.g., hemin, NAD) and enables the observation of hemolytic reactions, which can aid in the identification of certain bacteria.

Reducing agents (like sodium bisulfite) help maintain an anaerobic environment, supporting obligate anaerobes.

Applications

- Isolation and cultivation of *Brucella spp.* from clinical or food samples.
- Growth and differentiation of other fastidious and anaerobic bacteria.
- Observation of hemolytic reactions for partial identification

Composition:

Enzymatic Digest of Casein 10.0 g/L

Enzymatic Digest of Animal Tissue 10.0 g/L

Yeast Extract 2.0 g/L

Sodium Chloride 5.0 g/L

Dextrose 1.0 g/L

Sodium Bisulfite 0.1 g/L

Agar 15.0 g/L

Storage: 2-8°C

Appearance: Opaque, red to dark red

pH Range: 6.8 - 7.2

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2-8 °C. Avoid freezing and overheating. Do not open until ready to use.

PHL-MI-254-01 - PD011-BRUCELLA AGAR + DEF.SHEEP BLOOD



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Performance Testing Results

GPT: inoculum 10-100 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1 NYC MEDIUM
<i>Bacteroides fragilis</i>	23745	33-37 °C	Anaerobic, 48 hours	Growth
<i>Clostridium perfringens</i>	13124	33-37 °C	Anaerobic, 48 hours	Growth